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(74) Agents: HILL, Richard et al.; Wilson Gunn Skerrett, Charles Street, 148/9 Great Charles Street, Birmingham B3 3HT (GB).

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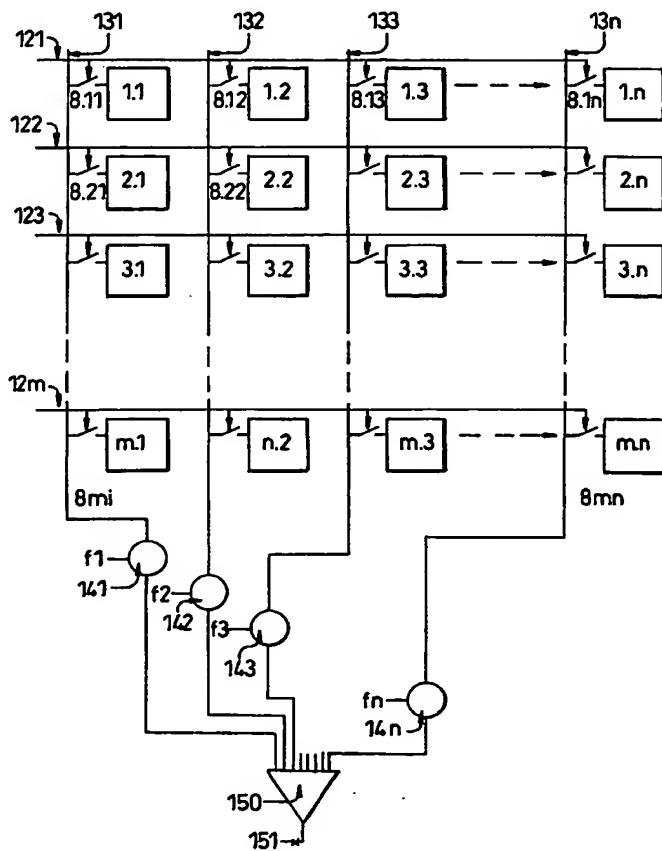
(71) Applicant (for all designated States except US):
MELEXIS NV [BE/BE]; Microelectronic Integrated
Systems, Rozendaalsstraat 12, B-8900 Leper (BE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): KASSOVSKI, Viktor,
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(54) Title: SENSOR ARRAY WITH AMPLITUDE MODULATED OUTPUT SIGNAL



(57) Abstract: A sensing device in the form of an image sensing array, includes photoelectric sensitive elements on a first integrated circuit and means for processing the signals on a second integrated circuit. The output of the sensing elements is sampled, amplitude modulated on to a carrier signal and transferred from the first to second integrated circuits wherein it is demodulated and passed to a processing means.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 612 581 A (HARADA NOZOMU ET AL) 16 September 1986 (1986-09-16) column 5, line 11 - line 27; figures 1,7 column 7, line 12 - line 27 ----- X	1,2, 7-11,20
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 05, 14 September 2000 (2000-09-14) & JP 2000 050304 A (AIPHONE CO LTD), 18 February 2000 (2000-02-18) abstract ----- X	1,2, 7-11,20
X	PATENT ABSTRACTS OF JAPAN vol. 0101, no. 45 (E-407), 28 May 1986 (1986-05-28) & JP 61 007779 A (TOSHIBA KK), 14 January 1986 (1986-01-14) abstract -----	1,2, 7-12,20
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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Montanari, M

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 06, 31 July 1995 (1995-07-31) & JP 7 087058 A (YAGI ANTENNA CO LTD), 31 March 1995 (1995-03-31) abstract -----	3,4

INTERNATIONAL SEARCH REPORT

PCT/IB 03/04631

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 4612581	A 16-09-1986	JP	1913396 C	09-03-1995
		JP	6040665 B	25-05-1994
		JP	60217762 A	31-10-1985
		DE	3583962 D1	10-10-1991
		EP	0161752 A2	21-11-1985
JP 2000050304	A 18-02-2000	NONE		
JP 61007779	A 14-01-1986	NONE		
JP 7087058	A 31-03-1995	NONE		